

Q1)

Following are the testing considerations in the testing areas given in figure:

- a) **Interface Design:** This area includes Interface Testing. Each interface is tested within the context of use-case for a specific user category. The complete user interface is tested against selected use-cases to uncover errors in the semantics of the interface. The interface is tested with a variety of environments to ensure that it will be compatible.

**Testing Tool:** Selenium, Test Studio, iMacros

- b) **Aesthetic Design:** This area also includes interface testing. Interfaces features are tested to ensure that design rules, aesthetics, and related visual content are available to the user without error. Individual interface is tested in a manner analogous to unit testing. Complete user interface is tested against selected use cases.

**Testing Tool:** Selenium, CubicTest

- c) **Content Design:** This area includes content testing. There are mainly three testing considerations for testing content design.

- To uncover syntactic errors in text-based documents, graphical representations.
- To uncover semantic errors in any content object presented as navigation occurs.
- To find errors in the organization or structure of content that is presented to the end-user.

**Testing Tool:** Maveryx, Junit.

- d) **Navigation Design:** This area includes navigation testing. While testing navigation design based mechanism, following things must be tested:

- Navigation links
- Redirects
- Bookmarks
- Frames and framesets
- Site maps
- Internal search engines

**Testing Tool:** Selenium, Junit, TestPartner

- e) **Architecture Design:** This area includes configuration testing. Both the server side and client sides are considered while performing testing on this area. In order to increase the performance of testing, the number of configuration variables must be reduced to a manageable number. Following things must be considered while testing client-side:

- Hardware
- Operating System
- Browser Software
- User interface components
- Plug-ins
- Connectivity

**Testing Tools:** DBUnit, PHPUnit

- f) **Component Design:** This area includes component level testing. It focuses on a set of tests that attempt to uncover errors in WebApp functions. While testing this area, conventional black-box and white box test case method design can be used. Database testing is often an integral part of the component testing.

**Testing Tools:** Junit, Usetrace, Test Studio